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PTO/SB/21 (09-04)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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|   |                      |                        |            |
|---|----------------------|------------------------|------------|
| <b>TRANSMITTAL FORM</b><br><br>(to be used for all correspondence after initial filing) | Application Number   | 10/687,508             |            |
|   | Filing Date          | October 15, 2003       |            |
|   | First Named Inventor | Jiang, et al.          |            |
|   | Art Unit             | 1713                   |            |
|   | Examiner Name        | C. Caixia Lu           |            |
| Total Number of Pages in This Submission  | 5                    | Attorney Docket Number | 2002B140/2 |

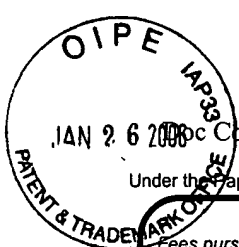
| ENCLOSURES (Check all that apply)  |   |   |
|--|---|---|
| <input checked="" type="checkbox"/> Fee Transmittal Form                   | <input type="checkbox"/> Drawing(s)   | <input type="checkbox"/> After Allowance Communication to TC                            |
| <input type="checkbox"/> Fee Attached                                      | <input type="checkbox"/> Licensing-related Papers                                       | <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences     |
| <input type="checkbox"/> Amendment / Reply                                 | <input type="checkbox"/> Petition   | <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) |
| <input type="checkbox"/> After Final                                       | <input type="checkbox"/> Petition to Convert to a Provisional Application               | <input type="checkbox"/> Proprietary Information  |
| <input type="checkbox"/> Affidavits/declaration(s)                         | <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address | <input type="checkbox"/> Status Letter  |
| <input type="checkbox"/> Extension of Time Request                         | <input type="checkbox"/> Terminal Disclaimer  | <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):         |
| <input type="checkbox"/> Express Abandonment Request                       | <input type="checkbox"/> Request for Refund   | 1) Form 1449  |
| <input checked="" type="checkbox"/> Information Disclosure Statement       | <input type="checkbox"/> CD, Number of CD(s) _____                                      | 2) 8 References   |
| <input type="checkbox"/> Certified Copy of Priority Document(s)            | <input type="checkbox"/> Landscape Table on CD  | 3) Postcard   |
| <input type="checkbox"/> Response to Missing Parts/ Incomplete Application | Remarks   |   |
| <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53  |   |   |

| SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT |                             |          |        |
|--|-----------------------------|----------|--------|
| Firm Name                                  | ExxonMobil Chemical Company |          |        |
| Signature                                  |                             |          |        |
| Printed name                               | Jeremy N. Welch             |          |        |
| Date                                       | January 26, 2006            | Reg. No. | 52,348 |

| CERTIFICATE OF TRANSMISSION/MAILING   |                |      |                  |
|---|----------------|------|------------------|
| I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the |                |      |                  |
| Signature   |                |      |                  |
| Typed or printed name   | Tracy N. Keyes | Date | January 26, 2006 |

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



IAN 2 6 2006 Doc Code:

PTO/SB/17 (12-04v2)

Approved for use through 07/31/2006. OMB 0651-0032

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Effective on 12/08/2004.

Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

**FEE TRANSMITTAL  
for FY 2005**☐ Applicant claims small entity status. See 37 CFR 1.27**TOTAL AMOUNT OF PAYMENT (\$)** **\$180.00****Complete if Known**Application Number **10/687,508**Filing Date **October 15, 2003**First Named Inventor **Jiang, et al.**Examiner Name **C. Caixia Lu**Art Unit **1713**Attorney Docket No. **2002B140/2****METHOD OF PAYMENT** (check all that apply)☐ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): \_\_\_\_\_☒ Deposit Deposit Account Number: **05-1712** Deposit Account Name: **ExxonMobil Chemical Company**

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☒ Charge fee(s) indicated below☐ Charge fee(s) indicated below, except for the filing fee☒ Charge any additional fee(s) or any underpayment of fee(s) under 37 CFR 1.16 and 1.17☒ Credit any overpayments**WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.****FEE CALCULATION****1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

| Application Type | FILING FEES |                       | SEARCH FEES |                       | EXAMINATION FEES |                       | Fees Paid(\$) |
|------------------|-------------|-----------------------|-------------|-----------------------|------------------|-----------------------|---------------|
|                  | Fee (\$)    | Small Entity Fee (\$) | Fee (\$)    | Small Entity Fee (\$) | Fee (\$)         | Small Entity Fee (\$) |               |
| Utility          | 300         | 150                   | 500         | 250                   | 200              | 100                   |               |
| Design           | 200         | 100                   | 100         | 50                    | 130              | 65                    |               |
| Plant            | 200         | 100                   | 300         | 150                   | 160              | 80                    |               |
| Reissue          | 300         | 150                   | 500         | 250                   | 600              | 300                   |               |
| Provisional      | 200         | 100                   | 0           | 0                     | 0                | 0                     |               |

**2. EXCESS CLAIM FEES**

| Fee Description                                    | Fee (\$) | Small Entity Fee (\$) |
|--|----------|-----------------------|
| Each claim over 20 (including Reissues)            | 50       | 25                    |
| Each independent claim over 3 (including Reissues) | 200      | 100                   |
| Multiple dependent claims                          | 360      | 180                   |

|                          |                     |                 |                      |
|--------------------------|---------------------|-----------------|----------------------|
| <b>Total Claims</b>      | <b>Extra Claims</b> | <b>Fee (\$)</b> | <b>Fee Paid (\$)</b> |
| _____ - 20 or HP = _____ | x _____             | <b>\$50.00</b>  | = <b>\$0.00</b>      |

HP = highest number of total claims paid for, if greater than 20.

|                         |                     |                 |                      |
|-------------------------|---------------------|-----------------|----------------------|
| <b>Indep. Claims</b>    | <b>Extra Claims</b> | <b>Fee (\$)</b> | <b>Fee Paid (\$)</b> |
| _____ - 3 or HP = _____ | x _____             | <b>\$200.00</b> | = <b>\$0.00</b>      |

HP = highest number of independent claims paid for, if greater than 3.

**3. APPLICATION SIZE FEE**

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listing under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

|                     |                     |   |                   |                      |
|---------------------|---------------------|---|-------------------|----------------------|
| <b>Total Sheets</b> | <b>Extra Sheets</b> | <b>Number of each additional 50 or fraction thereof</b> | <b>Fee (\$)</b>   | <b>Fee Paid (\$)</b> |
| _____ - 100 = _____ | / 50 _____          | (round up to a whole)                                   | x <b>\$250.00</b> | = <b>\$0.00</b>      |

**4. OTHER FEE(S)**

Non-English specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): **Information Disclosure Statement****\$180.00****SUBMITTED BY**

|                   |                 |                                   |        |           |                  |
|-------------------|-----------------|-----------------------------------|--------|-----------|------------------|
| Signature         |                 | Registration No. (Attorney/Agent) | 52,348 | Telephone | 281-834-2429     |
| Name (Print/Type) | Jeremy P. Welch |                                   |        | Date      | January 26, 2006 |

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



|  |   |                                  |   |
|--|---|----------------------------------|---|
| <b>TRANSMITTAL OF INFORMATION DISCLOSURE<br/>STATEMENT UNDER 37 CFR § 1.97(b), 1.97(c), or 1.97(d)</b> |   |                                  | <b>Attny. Docket No.<br/>2002B140/2</b> |
| <b>In Re Application of: Jiang, et al.</b>   |   |                                  |   |
| <b>U.S. Serial No.<br/>10/687,508</b>  | <b>Filing Date<br/>October 15, 2003</b> | <b>Examiner<br/>C. Caixia Lu</b> | <b>Group Art Unit<br/>1713</b>          |

Address to:  
**Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450**

**37 CFR § 1.97(b)**

- ☐ The Information Disclosure Statement submitted herewith is being filed within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d); within three months of the date of entry of the national stage as set forth in § 1.491 in an international application; before the mailing of a first Office Action on the merits; or before the mailing of a first Office Action after the filing of a request for continued examination under § 1.114.

**37 CFR § 1.97(c)**

- ☒ The Information Disclosure Statement submitted herewith is being filed after three months of the filing date of a national application other than a continued prosecution application under § 1.53(d); after three months of the date of entry of the national stage as set forth in § 1.491 in an international application; after the mailing of a first Office Action on the merits; or after the mailing of a first Office Action after the filing of a request for continued examination under § 1.114, but before the mailing date of:

1. a Final Action under § 1.113,
2. a Notice of Allowance under § 1.311, or
3. an action that otherwise closes prosecution in the application,

and is accompanied by either:

- ☒ the fee as set forth in § 1.17(p), or  
☐ the following statement under § 1.97(e)(1): each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement.

**37 CFR § 1.97(d)**

- ☐ The Information Disclosure Statement submitted herewith is being filed after a Final Action under § 1.113, a Notice of Allowance under § 1.311, or an action that otherwise closes prosecution in the application, but before, or simultaneously with, the payment of the issue fee. Submitted herewith is the fee as set forth in § 1.17(p) and the following statement under 37 CFR § 1.97(e)(1): each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement.

02/01/2006 RNEB/RAHT 00000159 051712 10687508

01 FC:1806 180.00 DA

Applicant hereby request consideration of the Information Disclosure Statement, USPTO form 1449, submitted herewith.


☒ Legible copies of references are enclosed, where necessary.

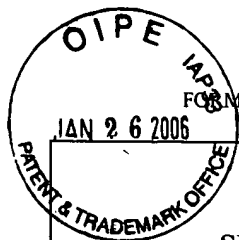
☐ This application is a:  
☐ Continuation / Divisional,  
☐ Continuation-in-Part,

of U.S.S.N. \_\_\_\_\_. Copies of the cited references are ☐ enclosed; ☐ not enclosed. References are available in the parent application(s) if not enclosed.

The Commissioner is hereby authorized to charge any additional fees which may be required by this paper, or credit any overpayment, to Deposit Account Number 05-1712 in the name of ExxonMobil Chemical Company. A duplicate copy of this form is enclosed.

25 Jan 2006  
Date

  
Jeremy P. Welch  
Registration No. 52,348  
ExxonMobil Chemical Company  
Law Technology  
P.O. Box 2149  
Baytown, Texas 77522-2149  
(281) 834-2429 Voice  
(281) 834-2495 Facsimile



FORM 1449

SHEET 1 OF 1**SUPPLEMENTAL INFORMATION  
DISCLOSURE STATEMENT***(Use several sheets if necessary)*

ATTY. DOCKET NO.

**2002B140/2**

SERIAL NO.

**10/687,508**

APPLICANT

**Jiang, et al.**

FILING DATE

**October 15, 2003**

GROUP

**1713**

## U.S. PATENT DOCUMENTS

| *EXAMINER<br>INITIAL |    | DOCUMENT<br>NUMBER | DATE       | NAME           | CLASS | SUBCLASS | FILING DATE<br>IF<br>APPROPRIATE |
|----------------------|----|--------------------|------------|----------------|-------|----------|----------------------------------|
|                      | AA | 5,231,126          | 07-2-1993  | Shi et al.     | 524   | 296      |                                  |
|                      | AB | 2003-078350        | 11-14-2002 | Weng, et al.   | 526   | 160      |                                  |
|                      | AC | 2004-048984        | 08-13-2003 | Weng, et al.   | 525   | 245      |                                  |
|                      | AD | US 2004-127614     | 10-15-03   | Jiang, et al.  | 524   | 270      |                                  |
|                      | AE | US 2004-0220359    | 4-15-04    | Abhari, et al. | 526   | 65       |                                  |
|                      | AF | US 2004-0220336    | 4-15-04    | Abhari, et al. | 525   | 70       |                                  |
|                      | AG | US 2004-0220320    | 4-15-04    | Abhari, et al. | 524   | 487      |                                  |
|                      | AH | US 2004-0249046    | 4-15-04    | Abhari, et al. | 524   | 474      |                                  |

## FOREIGN PATENT DOCUMENTS

|  |    | DOCUMENT<br>NUMBER | PUBL.<br>DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION |    |
|--|----|--------------------|---------------|---------|-------|----------|-------------|----|
|  |    |                    |               |         |       |          | YES         | NO |
|  | AI | 2316614            | 10-18-1973    | DE      |       |          |             |    |
|  | AJ | 1 295 926 A        | 03-26-2003    | EP      |       |          |             |    |
|  | AK | 2407183            | 04-11-2003    | CA      |       |          |             |    |
|  | AL | 02/36651 A         | 05-10-2002    | WO      |       |          |             |    |
|  | AM | 2004/046214 A      | 06-03-2004    | WO      |       |          |             |    |
|  | AN | 2004/037872 A      | 05-06-2004    | WO      |       |          |             |    |
|  | AO |                    |               |         |       |          |             |    |

## OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages of Publication, Etc.)

|  |    |                        |
|--|----|------------------------|
|  | AP | Abstract of DE 2316614 |
|  | AQ | Abstract of CA 2407183 |
|  | AR |                        |

EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next comment to applicant